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Abstract of the Invention

The present invention provides methods, as well as compositions related thereto, for the efficient transduction of cells using viral vectors. The efficiency of transduction is increased by contacting the cell to be transduced with one or more molecules that bind the cell surface. Contact with a cell surface binding molecule may occur before, after, or simultaneously with contact between the viral vector and the cell. The transduced vectors may be constructed to express a gene of interest, permitting the transduced cells to be used as therapeutic and prophylactic agents.